

MATERIAL SAFETY DATA SHEET

N/A=NOT APPLICABLE

EFFECTIVE DATE 8/03

SECTION 1 - PRODUCT IDENTIFICATION

Product Name: AMMONIATED HEAVY DUTY GLASS CLEANER CONC. (GC401) Chemical Family: CLEANING COMPOUND
Supplier's Name: Banner Chemical Corp. Proper Shipping Name: CLEANING COMPOUND
Supplier's Address: 111 Hill St. DOT Shipping Hazard: N/A
Orange, N.J. 07050 DOT Labels Required: N/A
EMERGENCY TELEPHONE NUMBER 1-201-676-2900 HMIS RATING (0-4): HEALTH: 1 FIRE: 0 REACTIVITY: 0

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NO.	% (optional)	TLV(ACGIH)
*Isopropanol	67-63-0	10	400 ppm.
*Aqua ammonia	7664-41-7	> 1	50 ppm.

*This toxic chemical is subject to reporting requirements of Sec. 313-SARA Title III-40CFR. Part 372.

SECTION 3 - PHYSICAL DATA

BOILING POINT: c. 212°F.
VAPOR PRESSURE (mmHg @ 20°C): 33
VAPOR DENSITY (air=1): 1.1
SPECIFIC GRAVITY: .95

SECTION 4 - FIRE and EXPLOSION DATA

FLASH POINT: > 110°F.
FLAMMABLE LIMITS: LFL 2 UFL 12
EXTINGUISHING MEDIA: Media proper to primary cause of fire
SPECIAL FIREFIGHTING PROCEDURES: Cool fire exposed container with water. Use self-contained breathing apparatus.

PHYSICAL DESCRIPTION: Clear blue liquid; alcohol & ammonia aroma.

pH: 7.9-8.2
SOLUBILITY IN WATER: Complete
EVAPORATION RATE: 1.4
% VOLATILE BY VOLUME: 99

UNUSUAL FIRE & EXPLOSION HAZARD: None known

SECTION 5 - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Not determined

EFFECTS OF OVEREXPOSURE: EYES: Severe irritation, redness, tearing, blurred vision. SKIN: Moderate irritation, defatting, dermatitis.
INHALATION: Can cause irritation to nose, throat & respiratory tract. INGESTION: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

EMERGENCY & FIRST AID PROCEDURES: EYES: Flush with copious amount of water for at least 15 min. lifting eyelids. SKIN: Remove contaminated clothing; wash exposed area with soap & water. INHALATION: Remove to fresh air. INGESTION: Immediately give large amount of water and induce vomiting. Never give anything by mouth to an unconscious person. In all cases consult a physician.

SECTION 6 - REACTIVITY DATA

STABILITY: Stable under normal conditions

SECTION 7 - SPILL or LEAK PROCEDURES

SPILLAGE: Contain spill and absorb with Ban-dri, earth, sand or similar inert material

INCOMPATIBILITY: Strong oxidizers; extreme heat & fire

WASTE DISPOSAL METHOD: In a manner consistent with federal, state and local regulations

HAZARDOUS DECOMPOSITION PRODUCTS: CO; unidentified organic compounds

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Can use N-IOSH respirator
GLOVES: Rubber or plastic coated should be used
OTHER PROTECTIVE EQUIPMENT: Clothing cover can be used

VENTILATION: Local exhaust sufficient
EYE PROTECTION: Safety glasses or shield if splashing expected

SECTION 9 - SPECIAL PRECAUTIONS

Do not get in eyes or on skin. Wash thoroughly after handling. Use with adequate ventilation. Store away from other chemicals and out of the reach of children. Store in a closed container away from fire and extreme heat. Keep from freezing. Use protective equipment.

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